

SEQUENCE LISTING

<110> Arthur, Jonathan Wesley
 Wilkins, Marc
 Traini, Mathew Danger

<120> ANNOTATION OF GENOME SEQUENCES

<130> 3170.1006-000

<140> 10/507,257

<141> 2005-04-27

<150> PCT/AU03/00300

<151> 2003-03-13

<150> PS1118

<151> 2002-03-13

<160> 96

<170> FastSEQ for Windows Version 4.0

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<212> PRT

<213> Mycobacterium tuberculosis

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Glu	Gly	Val	Val	Glu	Val	Arg	Ala	Thr	Ser	Gly	Asp	Asn	His	Leu	Gly
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Gly	Asp	Asp	Trp	Asp	Gln	Arg	Val	Val	Asp	Trp	Leu	Val	Asp	Lys	Phe
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Arg	Leu	Arg	Glu	Ala	Ala	Glu	Lys	Ala	Lys	Ile	Glu	Leu	Ser	Ser	Ser
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Asn Pro Leu Phe Leu Asp Glu Gln Leu Thr Arg Ala Glu Phe Gln Arg
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Ile Thr Gln Asp Leu Leu Asp Arg Thr Arg Lys Pro Phe Gln Ser Val
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Ile Ala Asp Thr Gly Ile Ser Val Ser Glu Ile Asp His Val Val Leu
          245          250          255
Val Gly Gly Ser Thr Arg Met Pro Ala Val Thr Asp Leu Val Lys Glu
          260          265          270
Leu Thr Gly Gly Lys Glu Pro Asn Lys Gly Val Asn Pro Asp Glu Val
          275          280          285
Val Ala Val Gly Ala Ala Leu Gln Ala Gly Val Leu Lys Gly Glu Val
          290          295          300
Lys Asp Val Leu Leu Leu Asp Val Thr Pro Leu Ser Leu Gly Ile Glu
305          310          315          320
Thr Lys Gly Gly Val Met Thr Arg Leu Ile Glu Arg Asn Thr Thr Ile
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1 5 10

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His Met Gly Ser Asp Trp Ser Ile Glu Ile Asp Gly Lys
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<212> PRT

<213> Mycobacterium tuberculosis

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His Met Gly Ser Asp Trp Ser Ile Glu Ile Asp Gly Lys
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Ala Thr Ser Gly Asp Asn His Leu Gly Gly Asp Asp Trp Asp Gln Arg
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<211> 17

<212> PRT

<213> Mycobacterium tuberculosis

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 Lys

<210> 13

<211> 20

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<213> Mycobacterium tuberculosis

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 Arg Ala Gln
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 35 40 45
 Pro Gly Leu
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 35 40 45
 Val Ala Val Gly Pro Gly Arg Trp Asp Glu Asp Gly Glu Lys Arg Ile
 50 55 60
 Pro Leu Asp Val Ala Glu Gly Asp Thr Val Ile Tyr Ser Lys Tyr Gly
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 Gly Thr Glu Ile Lys Tyr Asn Gly Glu Glu Tyr Leu Ile Leu Ser Ala
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 Arg Asp Val Leu Ala Val Val Ser Lys
 100 105

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 35 40 45
 Val Trp Arg Thr His Gly Tyr Gln Arg Arg Arg His Gly Gly Thr
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<400> 33
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 Ala Asp Gly Pro Ala Arg His Gln Ser Ala Val Glu Pro Ser Ala Gly
 35 40 45
 Trp Trp Ile Arg Pro Gln Arg Gly Arg Gly Pro Ala Ala Arg Gly Val
 50 55 60
 Ala Thr Trp Arg Arg Trp Val Val Asp Pro His Ala Ala Asp Val Ser
 65 70 75 80
 Ala Asp Arg Lys Ala Gly Cys Pro Leu Gly Asp Ala Gly Gly Cys Cys
 85 90 95
 Arg Ile Val Gly Asp Gly Trp Arg Arg Ser Gly Gly Cys Gly Ser Asp
 100 105 110
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<400> 34

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Arg Arg Arg Arg Gly Arg Leu Gly Arg Arg Gly Arg Leu Val Ser Ser
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 His Phe Gly Glu Glu Gly Lys Glu Arg Lys
 35 40

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 20 25 30
 Gln Val Glu Ser Thr Ala Gly Ser Leu Gln Gly Gln Trp Arg Gly Ala
 35 40 45
 Ala Gly Thr Ala Ala Gln Ala Val Val Arg Phe Gln Glu Ala Ala
 50 55 60
 Asn Lys Gln Lys Gln Glu Leu Asp Glu Ile Ser Thr Asn Ile Arg Gln
 65 70 75 80
 Ala Gly Val Gln Tyr Ser Arg Ala Asp Glu Glu Gln Gln Gln Ala Leu
 85 90 95
 Ser Ser Gln Met Gly Phe
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<400> 36
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<213> Mycobacterium tuberculosis

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<400> 39

Gln Ala Gly Val Gln Tyr Ser Arg
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Glu Met Ser Arg Pro Phe Ile Pro Ser Leu Thr Arg
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1 5 10

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<210> 44
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<210> 46
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<210> 47
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 1 5 10 15
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<400> 48
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 20 25 30

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Arg Trp Ala Val Cys Glu Pro Asp Ser Arg Ala Lys Ile Pro Asn Ser
 35 40 45
 Ala Trp Arg Arg Cys Ala
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<210> 49

<211> 68

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 20 25 30
 Ser Gly Arg Arg Cys Ala Pro Ser Gly Arg Thr Pro Arg Pro Arg Asp
 35 40 45
 Pro Lys Arg Pro Arg Asp Ala Ala Gly Asn Val Asp Arg Arg His Val
 50 55 60
 Leu His Arg Ser
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<210> 51

<211> 55

<212> PRT

<213> Mycobacterium tuberculosis

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Asn Pro Ala Pro Ile Thr Arg Ser Pro Ser Ser Arg Pro Thr Asp Gly
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 Cys Arg Tyr Ala Ser Met Ala Arg Trp Ser Arg Thr Arg Pro Arg Arg
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 Cys Ala Cys Arg Lys Pro Val Thr Leu Gln Cys Asn Ile Phe Arg Trp
 35 40 45
 Pro Thr Trp Tyr Arg Ile Gly
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<211> 19

<212> PRT

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<210> 54
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 1 5 10

<210> 55
 <211> 83
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 35 40 45
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<212> PRT

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Trp Pro Thr Trp Tyr Arg
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1 5

<210> 60

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<211> 18

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<213> Mycobacterium tuberculosis

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<213> Homo sapiens

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<210> 66
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<400> 67
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<210> 68
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<212> PRT

<213> Homo sapiens

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 Arg Asn Arg Gln Arg Gly Arg Arg Pro Arg His Arg Gln Arg Gly Arg
 35 40 45
 Arg Pro Gly His Arg Gln Arg Gly Arg Arg Pro Gly His Arg Gln Gly
 50 55 60
 Gly Arg Arg Pro Arg His Arg Gln Arg Gly Arg Arg Pro Gly His Arg
 65 70 75 80
 Gln Arg Gly Arg Arg Pro Gly His Arg Gln Gly Gly Arg Arg Pro Gly
 85 90 95
 His Arg Gln Arg Gly Arg Arg Pro Gly His Arg Gln Arg Gly Arg Arg
 100 105 110
 Pro Gly His Arg Gln Gly Gly Arg Arg Pro Gly His Arg Gln Arg Gly
 115 120 125
 Arg Arg Pro Gly His Arg Gln Arg Gly Arg Arg Pro Trp His Arg Gln
 130 135 140
 Arg Gly Arg Arg Pro Gly His Arg Gln Arg Gly Arg Arg Pro Arg Asn
 145 150 155 160
 Arg Gln Arg Gly Arg Arg Pro Arg His Arg Gln Arg Gly Arg Arg Pro
 165 170 175
 Gly His Arg Gln Gly Gly Cys Arg Pro Gly His Arg Gln Arg Gly Arg
 180 185 190
 Arg Pro Gly His Arg Gln Arg Gly Arg Arg Pro Gly His Arg Gln Arg
 195 200 205
 Gly Arg Arg Pro Lys His Arg Gln Arg Ala Val Tyr Asp Ile Ala Asn
 210 215 220
 Glu Asp Thr Leu Gln Ala Val Ala Asn Lys Tyr Thr Val His Asn Ile
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 20 25 30
 Ile Ala

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 Phe Leu Phe Glu Glu Leu Met Arg Cys Asp Lys Asp Ser Met Pro Asp
 35 40 45
 Gly Asn Leu Ser Glu Glu Glu Lys Leu Phe Leu Ser Tyr Phe Pro Leu
 50 55 60
 His Lys Phe Glu Leu Glu Gln Asn Ile Lys Glu Leu Asn Thr Leu Ala
 65 70 75 80
 Asp Gln Val Asp Thr Thr His Glu Leu Leu Thr Lys Thr Ser Leu Val
 85 90 95
 Ala Ser Ser Ser Gly Ala Val Ser Gly Val Met Asn Ile Leu Gly Leu
 100 105 110

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Ala	Leu	Ala	Pro	Val	Thr	Ala	Gly	Gly	Ser	Leu	Met	Leu	Ser	Ala	Thr
	115						120				125				
Gly	Thr	Gly	Leu	Gly	Ala	Ala	Ala	Ala	Ile	Thr	Asn	Ile	Val	Thr	Asn
	130					135					140				
Val	Leu	Glu	Asn	Arg	Ser	Asn	Ser	Ala	Ala	Arg	Asp	Lys	Ala	Ser	Arg
145					150					155					160
Leu	Gly	Pro	Leu	Thr	Thr	Ser	His	Glu	Ala	Phe	Gly	Gly	Ile	Asn	Trp
			165					170						175	
Ser	Glu	Ile	Glu	Ala	Ala	Gly	Phe	Cys	Val	Asn	Lys	Cys	Val	Lys	Ala
			180					185					190		
Ile	Gln	Gly	Ile	Lys	Asp	Leu	His	Ala	Tyr	Gln	Met	Ala	Lys	Ser	Asn
	195						200					205			
Ser	Gly	Phe	Met	Ala	Met	Val	Lys	Asn	Phe	Val	Ala	Lys	Arg	His	Ile
	210				215						220				
Pro	Phe	Trp	Thr	Ala	Arg	Gly	Val	Gln	Arg	Ala	Phe	Glu	Gly	Thr	Thr
225					230					235					240
Leu	Ala	Met	Thr	Asn	Gly	Ala	Trp	Val	Met	Gly	Ala	Ala	Gly	Ala	Gly
				245					250					255	
Phe	Leu	Leu	Met	Lys	Asp	Met	Ser	Ser	Phe	Leu	Gln	Ser	Trp	Lys	His
			260				265						270		
Leu	Glu	Asp	Glu	Ala	Arg	Thr	Glu	Thr	Ala	Glu	Glu	Leu	Arg	Ala	Leu
	275						280					285			
Ala	Lys	Lys	Leu	Glu	Gln	Glu	Leu	Asp	Arg	Leu	Thr	Gln	His	His	Arg
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His Leu Pro Gln Lys
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<210> 83
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<400> 86
His Ile Pro Phe Trp Thr Ala Arg
1 5

<210> 87
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<400> 87
Ser Asn Ser Gly Phe Met Ala Met Val Lys
1 5 10

<210> 88
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<212> PRT
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<400> 88
Asp Leu His Ala Tyr Gln Met Ala Lys
1 5

<210> 89
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<400> 89

Asp	Met	Ser	Ser	Phe	Leu	Gln	Ser	Trp	Lys
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<210> 90

<211> 10

<212> PRT

<213> Homo sapiens

<400> 90

Leu	Phe	Leu	Ser	Tyr	Phe	Pro	Leu	His	Lys
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<210> 91

<211> 13

<212> PRT

<213> Homo sapiens

<400> 91

Asp	Ser	Met	Pro	Asp	Gly	Asn	Leu	Ser	Glu	Glu	Glu	Lys
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<211> 18

<212> PRT

<213> Homo sapiens

<400> 92

Glu	Leu	Asn	Thr	Leu	Ala	Asp	Gln	Val	Asp	Thr	Thr	His	Glu	Leu	Leu
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Thr	Lys														

<210> 93

<211> 27

<212> PRT

<213> Homo sapiens

<400> 93

Ala	Phe	Glu	Gly	Thr	Thr	Leu	Ala	Met	Thr	Asn	Gly	Ala	Trp	Val	Met
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Gly	Ala	Ala	Gly	Ala	Gly	Phe	Leu	Leu	Met	Lys					
			20					25							

<210> 94

<211> 28

<212> PRT

<213> Homo sapiens

<400> 94

Leu	Gly	Pro	Leu	Thr	Thr	Ser	His	Glu	Ala	Phe	Gly	Gly	Ile	Asn	Trp
1				5					10					15	

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Ser Glu Ile Glu Ala Ala Gly Phe Cys Val Asn Lys
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<210> 95
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 <212> PRT
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<400> 95
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 Ser Tyr Phe Leu Phe Glu Glu Leu Met Arg
 20 25

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<400> 96
 Thr Ser Leu Val Ala Ser Ser Ser Gly Ala Val Ser Gly Val Met Asn
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 Ile Leu Gly Leu Ala Leu Ala Pro Val Thr Ala Gly Gly Ser Leu Met
 20 25 30
 Leu Ser Ala Thr Gly Thr Gly Leu Gly Ala Ala Ala Ala Ile Thr Asn
 35 40 45
 Ile Val Thr Asn Val Leu Glu Asn Arg
 50 55